

# BergStak® 0.5mm Mezzanine Connector

Expanded product range

## RELIABLE SOLUTION FOR HIGH DENSITY APPLICATIONS

Amphenol's BergStak® 0.5mm is a comprehensive and versatile board-to-board solution designed for reliable and high-density applications. The unique design of scoop-proof housing ensures terminals are not damaged during mating.

- 0.5mm double row contact for high density connector
- Scoop-proof housing ensures terminals are not damaged during the mating
- PCB locator pegs option helps to ease manual assembly



### TARGET MARKETS



### FEATURES

- 0.5mm double row contact
- Scoop-proof housings
- Metal hold-down option
- Locating pegs option
- 3mm to 6mm stack heights in 0.5mm increments
- 10 to 80 positions in 10 position increments
- Available in UL94 V0
- USCAR-2 V1 shock and vibration qualified
- RoHS compliant and lead-free

### BENEFITS

- High density connector
- Ensures terminals are not damaged during mating
- Higher retention force
- Eases manual assembly
- Wide range of sizes and stack heights supports different applications
- High flammability rating
- Suitable for automotive applications
- Meets environmental, health and safety requirements

## TECHNICAL INFORMATION

### MATERIAL

- Housing: High Temperature Thermoplastic UL94V-0, LCP, Black
- Terminal: Copper alloy
- Metal hold-down: Copper Alloy
- Plating: Gold Flash

### MECHANICAL PERFORMANCE

- Mating Force: 1.47N per pin max.
- Unmating Force: 0.15N per pin min.
- Retention Force: 0.98N per pin min.
- Durability: 50 mating cycles
- Shock and Vibration: USCAR-2 V1

### ELECTRICAL PERFORMANCE

- Current Rating per Contact: 0.5A per contact
- Insulation Resistance: 500MΩ min.
- Voltage Rating: 50 VAC

### ENVIRONMENTAL

- Salt Spray Test:
  - 5±1% salt concentration 48±4 hours 35±2°C
- Thermal Shock: -65°C to +125°C
- High Temperature: 85±2°C for 96 hours
- Humidity:
  - Temperature: 40±2°C 96 hours
  - Relative Humidity: 90-95%
  - Duration: 96 Hours

### SPECIFICATIONS

- Product Specification: GS-12-1298

### PACKAGING

- Tape & Reel

### TARGET MARKETS/APPLICATIONS



Automotive



Digital Video Camera



Measurement Equipment  
Mobile Payment Device  
Point of Sales Equipment  
Portable Industrial Terminal  
Surveillance Camera



Medical Device

## PART NUMBERS

Position	Description	Connector Height (mm)	Stack Height (mm)	Part Numbers
10~80	Plug 1	2.3	3.0	10132797-XX1100LF
XX=01/02/03/04/05/06/08	Receptacle 1	2.15		10132798-XX1100LF
10~60	Plug 3	3.3	4.0	10132797-XX1300LF
XX=01/02/03/04/05/06	Receptacle 1	2.15		10132798-XX1100LF
10~60	Plug 5	4.3	5.0	10132797-XX5100LF
XX=01/02/03/04/05/06	Receptacle 2	2.7		10132798-XX2100LF
10~60	Plug 7	5.3	6.0	10132797-XX7100LF
XX=01/02/03/04/05/06	Receptacle 2	2.7		10132798-XX2100LF

\*For more sizes and configurations, please contact our Amphenol sales representatives.

## AVAILABLE STACK HEIGHTS

		10132797 SERIES (PLUG SERIES)			
COMBINATION OF MATED HEIGHT 3.0~4.5mm		Plug 1 	Plug 2 	Plug 3 	Plug 4 
	Recep 1 				
COMBINATION OF MATED HEIGHT 5.0~6.0mm		Plug 5 	Plug 6 	Plug 7 	
	Recep 2 				

## P/N SELECTOR– RECEPTACLE

10132798		—	AA	B	C	D	E	F	—	LF
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AA	Position
01	2X05
02	2X10
03	2X15
04	2X20
05	2X25
06	2X30
08	2X40

  

B	Description
1	Receptacle 1
2	Receptacle 2

  

F	Customer Code
Blank	Standard P/N
V	Apply for special customer

  

E	Packaging
0	Tape and Reel without cap

  

D	Polarization Peg	Hold Down
0	Yes	Yes
1	No	Yes
2	Yes	No
3	No	No

  

C	Plating: Contact Area/Solder Tail Area
1	1~3μ" Au on contact area over 50μ" Ni min. Gold flash on solder tail over 50μ" Ni min.

## P/N SELECTOR– HEADER

10132797		—	AA	B	C	D	E	F	—	LF
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AA	Position
01	2X05
02	2X10
03	2X15
04	2X20
05	2X25
06	2X30
08	2X40

  

B	Description
1	Receptacle 1
2	Receptacle 2
1	Receptacle 1
2	Receptacle 2
1	Receptacle 1
2	Receptacle 2
2	Receptacle 2

  

F	Customer Code
Blank	Standard P/N
V	Apply for special customer

  

E	Packaging
0	Tape and Reel without cap

  

D	Polarization Peg	Hold Down
0	Yes	Yes
1	No	Yes
2	Yes	No
3	No	No

  

C	Plating: Contact Area/Solder Tail Area
1	1~3μ" Au on contact area over 50μ" Ni min. Gold flash on solder tail over 50μ" Ni min.